

Abstract

A clarification apparatus for liquid, characterized in that it has a first filtration layer (3) and a second filtration layer (4) and, arranged between the layers, an absorbing agent (5) comprising basic magnesium sulfate and magnesium hydroxide, wherein a liquid to be treated containing fine particles is passed through the absorbing agent (5), to thereby aggregate the fine particles in the liquid to be treated, and then the resulting large particles are caught by the second filtration layer (4) and wherein a liquid to be treated containing a heavy metal ion is passed through the absorbing agent (5), to thereby react the metal ion with a hydroxyl ion of the absorbing agent and solidify the metal ion, followed by aggregation, and then the resulting large particles are caught by the second filtration layer (4); and an apparatus which further has an electrode device capable of generating an OH ion, wherein the electrically generated OH ions, the OH radicals of the absorbing agent (5) and the heavy metal ions react with one another, to thereby efficiently solidify the metal ions and aggregate the resultant solid into large particles, and then the resulting large particles are caught by the second filtration layer (4).

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